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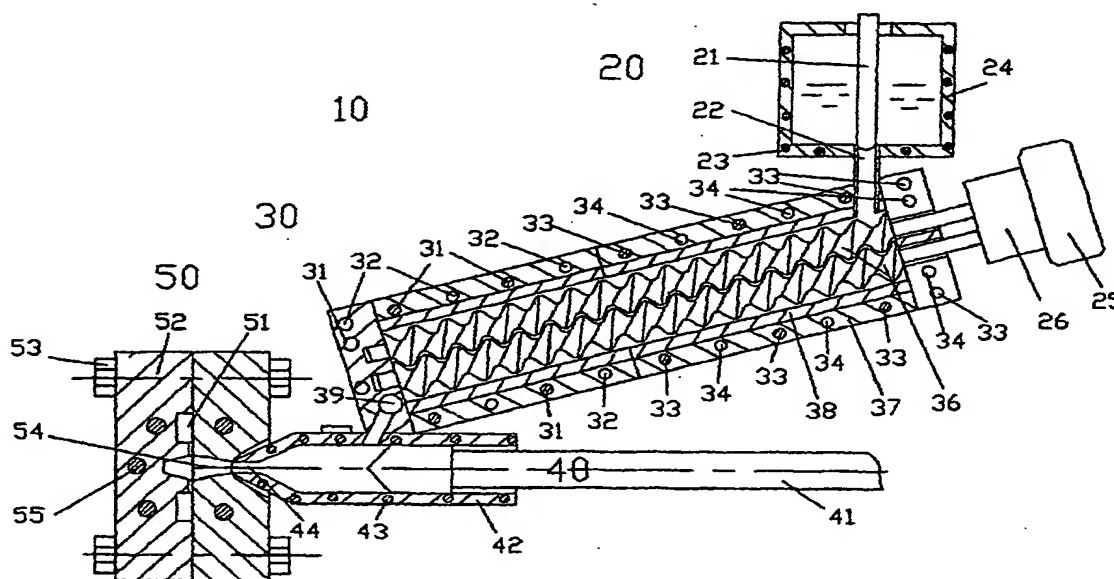
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(54) Title: METHOD AND APPARATUS FOR PRODUCING SEMISOLID METAL SLURRIES AND SHAPED COMPONENTS



(57) Abstract: A method and apparatus for converting liquid alloy into its thixotropic state and for fabricating high integrity components by injecting subsequently the thixotropic alloy into a die cavity (51). The apparatus includes a liquid metal feeder (20), a high shear twin-screw extruder (30), a shot assembly (40) and a central control system. The apparatus and method can offer net-shaped components characterised by close to zero porosity, fine and equiaxed particles with a uniform distribution in the eutectic matrix, and a large range of solid volume fractions.

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